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MERRY
CHRISTMAS

TECH NEWS

HAPPY
NEW YEAR

VOL. XXVIII

WORCESTER, MASS., DECEMBER 22, 1936

No. 11

"When Science and Religion Meet" Subject of Address By Prof. Kirtley F. Mather

Emphasizes Fact That Science And Religion are Both Essential to Man

UNUSUAL ADDRESS

States That the "Scientific Habit Of Mind" Science's Greatest Contribution

Professor Kirtley Mather, eminent geologist, emphasized the fact that both science and religion are essential to the welfare of mankind and should be closely coordinated in order that civilization may progress, in developing his subject, "When Science and Religion Meet", at the third of the series of Fuller lectures. The assembly was conducted by the S.C.A. Thursday, December 17, in the gymnasium. Kingston Atwood, president of the S.C.A., opened the assembly and introduced President Earle, who in turn presented the speaker. Professor Mather, a versatile character, has traveled widely during his career as geologist, lecturer, and author. A man with technical training, Professor Mather presented his subject with refreshing clearness.

Declaring that the mission of science is to inspire men to turn aside and "see" Professor Mather continued in explanation: "Seeing," means the use of all the intelligence one possesses, not merely looking. Religion is the call to duty. It is a call to help men become free, whether in a physical, economic or intellectual way. Science is essential in giving us a new method of approaching the world in which we live and finding out things about ourselves. The scientific method and habit of mind, which has given to us innumerable gadgets, devices and inventions, is now gaining a place in religion that was formerly closed to it. The fundamental attitude toward truth, the invariable and accurate observation of facts regardless of whether they are in agreement with former precepts has made a decided impact on the religions of the present and the future.

Professor Mather declared that religion should select the goals toward which science shall strive. The tools given to us by science might be used for good or evil. For example, the airplane, may on one hand be used as a messenger of good will, while on the other, be turned into an effective machine of destruction, dropping death and desolation from the clouds. Science is blind and needs the guidance of religion.

Science deals with magnitudes and motions perceptible to the senses and works in a world that may be measured. Yet, science has found spiritual and esthetic qualities that cannot be measured, such as beauty, love, truth, law, and goodness. The deeper science probes into the secrets of nature, the more wonderful and mysterious they become. No matter how much you know relative to the manifestations

(Continued on Page 2, Col. 3)

Pres. Earle To Give Last Talk Of This Year

Subject of Tuesday's Chapel Talk Will Be a Christmas Spirit

When we assemble here again, vacation will have come and gone, and with it the two holidays that are the most widely observed in the world, Christmas and New Year's. That period will be dominated by the spirit of giving and of cooperation that comes to all, a spirit of generosity and of sacrifice towards all our fellows. If we try to find the reason for this spirit we learn it is not one our finite minds can grasp, it comes to us in a mysterious way and comes to all in every part of the world. It is one of the universal things accomplished through our religion.

As you absent yourselves from college, you will use this period to cement your home ties and home friendships, and also you will see what college and your friends there mean to you; and, upon your return, benefitted and refreshed as you must be by this unique but welcome interlude in your lives, you will seize more and more the opportunities given you at college to make a real life.

Realizing that only the great literary men of the world can properly describe what Christmas and this "good will" to men means, I quote from them. Washington Irving writes:

"It is a beautiful arrangement, also derived from days of yore, that this festival (Christmas) which commemorates the announcement of peace and love, has been made the season for gathering together of family connections, and drawing close again those bonds of kindred hearts, which the cares and pleasures and sorrows of the world are continually operating to cast loose; of calling back the children of a family who have launched forth in life and wandered widely asunder, once more to assemble about the paternal hearth, that rallying place of the affections, there to grow young and loving again among the endearing mementos of childhood."

That Washington Irving was right is more and more impressed upon us all the older we grow, but yet there is in us from childhood this unusual spirit of generous fellowship at this season of the year. Christmas brings a blessing to all.

Strange things then happen at sea, as this forecastle bard truly writes. We are apt to think that "Christmas at sea is just like Friday on the farm," but it isn't, any more than is that saying true that aboard ships "six days shalt thou labor and do all that thou art able, and on the seventh holystone the decks and chip the cable."

A. M. Harbord in the London "Tatler" puts the matter thus:

(Continued on Page 2, Col. 3)

Engineers Rally In Closing Seconds To Defeat R. I. Rams



A. S. C. E. Hears Address On The Grand Coulee

Mr. George Sanford Gives An Excellent Account of the Work Being Done

Mr. George Sanford, chief engineer of the Bureau of Reclamation of the Department of the Interior, spoke at the third A. S. C. E. meeting on the subject the Grand Coulee Dam and irrigation system, which was held Wednesday afternoon, December 16, in Boynton 19.

Mr. Sanford graduated from Tech just before the turn of the century. His field was Reclamation and Irrigation Control.

With the aid of slides and several reels of motion pictures he gave the A. S. C. E. a clean cut and vivid picture of the work going on now and the work to come.

Grand Coulee Dam is on the Columbia River, ninety miles west of Spokane. When completed the dam will be 550 feet high and 4,300 feet long.

The plans call for an excavation of 15,000,000 cubic yards of earth and the placing of 11,000,000 cubic yards of concrete. The amount of concrete in Grand Coulee Dam is two and a half times the amount used in Boulder Dam. If the concrete were piled on the area of one city block it would be 3,375 feet high or 2.7 times the height of the Empire State building.

The total cost of the dam is estimated at \$186,000,000 and for the completed project \$394,000,000. The dam is being financed by a loan from the federal government. The Bureau of Reclamation expects to be able to pay this debt off in fifty years from the sale of the electric power.

At this moment the excavation is going on and also the building of the cofferdam. Work goes on twenty-four hours a day, and at present one cubic

(Continued on Page 2, Col. 4)

Al Raslavsky Sinks Two As Game Ends To Climax Most Amazing Individual Performance Seen in Tech Gym

JAWORSKI FAILS IN RETURN TO WORCESTER

McEwan and Forkey Play Major Part in Astounding Upset Over Highly Favored Rhode Island State Team

The Tech hoopsters defeated a highly touted and highly favored Rhode Island State team Saturday night in the closing seconds of the game on two long shots by Al Raslavsky who had completely dominated the play during the entire game.

After a slow start, during which the Rams went out to a five-point lead, the Biglermen went to town on shots by McEwan, Rushton and Raslavsky. Showing much better floor work than they displayed last week, the guards had complete mastery of the underbasket situation and continually blocked the Ram short shots. The Staters, sensing they were stopped under the basket, took to long shots with fair success and managed to pull up to within four points of Tech at the half.

Beginning the second half even faster than they started the first, Rhode Island climbed up to a tie and then went ahead as their long shots began to find their mark more often. Jaworski, who hung under the basket several times to take long passes and sink sucker shots, led this short-lived Ram rally.

Tech began closing in on the opponents with but six minutes to go and were but one point behind when Tasjian, the outstanding Rhode Island player, sank the long shot which everyone thought had sewed up the game. But Al Raslavsky, who was hardly able to stay on the floor because of exhaustion, took a quick pass from Ray Forkey and arched one in. With only ten seconds left Forkey tapped to Raslavsky, and again without a moment's hesitation Al flipped it through. The game ended just after the next center jump.

Raslavsky had to be aided to the dressing room and was treated for a multiple of injuries received during the game. Just as Al Raslavsky was the hero, Jaworski, former Worcester High School player, was the goat. Returning to play against some of the men he had opposed when his high school played the Jayvees, Chet was supposed to run rampant. His advance newspapers notices promised Tech an extraordinary scoring spree; but Jaworski had not bargained with the kind of defense Tech presented and he found himself completely bottled up except for the many times he hung under basket to take quick passes from his mates.

The Jayvees, strengthened by support from the varsity squad lost a hard fought game to North High School 17-14.

The scores:

WORCESTER TECH			
	g	f	t
Munson f	2	0	4
McEwan f	4	1	9
Forkey c	4	0	8
Raslavsky g	6	1	13
Rushton g	2	1	5
Folmsbee g	0	0	0
Totals	18	3	39

R. I. STATE			
	g	f	t
Messina f	2	1	5
Tasjian f	5	1	11
Elliott f	1	0	2
Jaworski c	5	1	11
Wright g	1	1	3
Thacks g	1	0	2
Caprelian g	0	0	0
Partington g	1	0	2
McCarthy g	1	0	2
Fay g	0	0	0
Totals	17	4	38

NORTH HIGH			
	g	f	t
Powers f	0	0	0
Johnson f	0	0	0
Delia f	0	2	2
Lavin c	1	0	2
Splaine c	3	1	7
Kapish g	0	0	0
Butler g	3	0	6
Totals	7	3	17

TECH JAYVEES			
	g	f	t
Wingardner f	0	0	0
Cameron f	1	0	2
Holt f	2	1	5
Shlora c	1	0	2
Blanchard g	1	0	2
Thulin g	0	1	1
Krolyshun g	1	0	2
Totals	6	2	14

Jan Campbell To Furnish Rhythm at Interfraternity

Ball To Be Held Tuesday At Hotel Bancroft From Nine 'till Two

Glamorous Greeks will stage their gala social affair of the season in the form of the annual Interfraternity Ball to be held at the Hotel Bancroft on Tuesday, December 22, from nine till two. Everything points to a gay, fun-full affair without precedent.

Jan Campbell and his Washington and Lee orchestra have been engaged to supply the dance rhythms for the evening. This orchestra has been very popular and well received at numerous college gatherings as well as at several leading hotels in prominent New York cities. At our own Senior Prom last June the orchestra proved all advance reports. With this versa-

(Continued on Page 3, Col. 1)

FITCHBURG GAME - SATURDAY, JAN. 9

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— editorials —



christmas message

It is with especial joy that, at times like this, editors are glad they are not "ex-editors." They really never want to be in the latter category, even though it is sometimes suggested by "rip-bottomed" fanatics, for though monetary increment is not the reward, there is always the personal satisfaction in doing such a thing as is hoped for in this message of "good cheer and happiness"; and that is, to express to all you students, who after all maintain the NEWS, and to the Faculty, some of whom we shall not see around Tech next Christmas—a very Merry Christmas and a pleasant New Year.

To the first group—the students, six hundred strong, there is yet more to say. And that is, remember the great sacrifices being made by those who send you to Tech.

grecs rest

Like the day after Armistice, and yet as sure as day follows night, and as welcome as an oasis on the Safari, is the post-rushing period at the various fraternities. All houses "made out" well and are to be commended, not only for the men they pledged, but also for the manner in which the two weeks' period was carried out. It again shows the value of an engineer's careful training as against the training of those at colleges where such things as "cut-throat" rushing occurs. There are few decisions we have to make that are preceded by so much "laying of cards on the table" as is that of deciding upon a house. More power to Tech fraternities!

ramblings

Those of you who were present at the game Saturday night had an opportunity to witness one of the finest basketball games ever to be played on Boynton Hill. This game, as has probably been pointed out to you already many times, was comparable only to the Brown game last year. This game was by far a faster game than that last year, and although that Brown game was a thriller, this tilt with the Rams had every one of the spectators biting his nails for the full forty minutes. Never before to the writer's memory have the student body showed such a wild display of enthusiasm and exuberance. Nor have they before raced onto the floor or the field of play to overwhelm and congratulate their team. And this win was even more gratifying since we entered as the underdog; we were really not expected to come out ahead, but the fact is that we did and it is the final score that counts.

It is gratifying to see so many of the faculty present at these athletic encounters. Such interest by the staff of instruction is sure to breed a better feeling between student and instructor, and a better understanding in a small school such as ours would carry us all a lot further. Notable among the faculty enthusiasts was our President Earle. Prexy attends practically every one of our athletic encounters and last night he was as wildly enthused as anyone present. We hope that more of our faculty will continue to turn out and take an interest in this team of which we have reason to be proud.

Few people realize what a fine man is leading the five this year. Captain Dick Munson is one of the finest team workers to ever lead a hoop team. His name is not mentioned prominently as a high scorer because he is not a high scorer. But he is the team's hardest worker and he plays ball every minute for the team and not for the number of points beside his name the next morning. His spirit is high and his determination strong. Such a man leads the five this year.

Chapel Talk

(Continued from Page 1, Col. 2)

HAPPY SHIP

Christmas Latitude 10° S
Las' night when I relieved the wheel
the Southern Cross hung low;
The steady swell beneath her keel, it
made her swing and yaw;
And as I swung the spokes about the
Mate began to jaw,
I've never known the perishes so
blooming friendly yet;
But with a kind of bloke like him you
never seem to know,
For some folks do remember things
that other folks forget.
I didn't know 'twas Christmas Eve—
'twas all the same to me,
The bow wave turned the water up a
kind o' shiny green.
The stars was dusted thicker'n I think
I've ever seen;
Sun—East by South I held her on with
all the world asleep.
End o' th' watch—the same ol' ship,
the ol' oily sea—
"A Merry Christmas!" says the Mate—
it knocked me all a heap!
Today, who minds sun glarin' down on
ocean smooth as sin?
The Chief's brought out his local
brand—distilled in Achnasheen,
The bosun, Lord knows why! is sing-
ing "Wearing o' the Green"
There's puddin' in the galley and
there's Christmas in the air.
The Old Man's even shipped a grin!
So what do sailors care?"

This little true, even if homely,
sketch of the spirit of the season comes
to me through the "Mainstay," the
booklet of the Seaman's Church Insti-
tute, an organization founded in the
spirit of Christian fellowship for "as
the Mainstay safeguards the mast, so
the Institute guards the man."

It remains for Dickens in the
"Christmas Carol" to give us best what
the season means. "There are many
things from which I might have de-
rived good, by which I have not
profited I dare say," returned the
nephew. "Christmas among the rest.
But I am sure I have always thought
of Christmas time, when it has come
around—apart from the veneration due
to its sacred name and origin, if any-
thing belonging to it can be apart from
that—as a good time; a kind, forgiving,
charitable, pleasant time: the only time
I know of, in the long calendar of the
year, when men and women seem by
common consent, to open their shut up
hearts freely, and to think of people
below them as if they really were fel-
low passengers to the grave, and not
another race of creatures bound on
other journeys. And, therefore, uncle,
though it has never put a scrap of
gold or silver in my pocket, I believe
that it HAS done me good, and will
do me good; and I say, God bless it!"

So as you leave us here at college
for a short time, keep this spirit of
Christmas ever with you, and thus
benefit your own character and make
the world and your college seem better
and mean more to you than you had
believed to be possible.

Generously thinking of others I am
sure you'll return here, keen to go on
and do better and better with good
will still in your hearts and the cer-
tainty that the Christmas spirit has
done you good.

Merry Christmas and Happy New
Year!

RALPH EARLE,
President.

Assembly

(Continued from Page 1, Col. 1)

of mechanics, radio telepathy, etc.
there still remains the original mystery.
Awe and wonder accompany each
forward step of the scientist and the
mystery of the discoveries become more
apparent.

"The need of the present day is to use
the method of science and the purpose
of religion which, combined, make for
greater knowledge and more lasting
peace", declared Professor Mather. Re-

ligion selects the goal. Science tells us
how to attain it.

"Around every person there is a circle
of action prescribed by heredity and
environment and existing in the world
of natural law that science has revealed.
Within that circle a man can be free
but he cannot make any progress be-
yond its confines. No one can truth-
fully say that he has made the most of
his life within the confines of his na-
tural ability except the inmates of an
insane asylum. Yet, a man may select
a sector of his circle and develop that,
putting responsibility on others for sup-
port in other sectors. Responsibility
should be placed upon individuals so
that a man may make up his own mind,
so that he can change the course of
history.

"A world of law and order must have
some sort of administration, otherwise
the discoveries of science would have
no basis. The administration of the
universe can be called simply the ad-
ministration of God. He is proven to
be a God of love, a God of law and a
God of kindness. He proves himself
to be a wise God by giving us the
means by which we may go on to
greater things by using the most of
our opportunities.

"The solution of our communal prob-
lems can be readily attained if man
would only allow religion to select the
goals and then use the tools of science
in their attainment."

President Earle will deliver the follow-
ing address on Tuesday, December
22 at the last chapel service of this year.

C. E. Meeting

(Continued from Page 1, Col. 3)

yard of concrete is being laid every
eleven seconds. The capacity of the
mixing plants is one cubic yard every
five and one-half seconds or 16,000
cubic yards per day.

To help the setting of the concrete
and to remove the heat generated by
the hardening process, over 2,000 miles
of piping is being placed in the dam,
through which cold water will be cir-
culated.

At one place a serious slide imperiled
the progress of the dam. At a cost of
\$27,000 an ice dam was erected across
its path and progress was resumed.

When completed the dam will raise
the river level 355 feet and create a
lake 4,000 feet wide and 150 miles long.
The generators will develop 2,520,000
horsepower or thirty-five per cent more
than Boulder Dam. The current will
be sold at the rate of two mills per
kilowatt hour.

One-seventh of the flow from the
dam will be pumped 280 feet higher
to provide a reservoir for irrigation
purposes.

Departmental Notes

M. E. Dept.

Mr. John H. Wenman spoke at the
recent fall meeting of the Drawing
Teachers' Association of New England
held in Springfield at the Technical
High School. The paper he presented
was entitled "Descriptive Geometry by
the Direct Method." About one hun-
dred drawing teachers attended this
meeting, W. P. I. being represented by
M. M. Wellman and Downing as well
as Mr. Wenman.

Benches and receptacles have been
placed in the basement of the M. E.
Building near the West Street entrance
to provide a suitable smoking room
for the students. It is hoped that stu-
dents will take advantage of this and
refrain from smoking in the corridors.

E. E. Dept.

The Worcester section of the Ameri-
can Society of Electrical Engineers held
their December meeting in the Com-
mons room of Sanford Riley Hall Tues-
day, December 15, with Richard Slauer
of the Westinghouse Light Division of
Bloomfield, New Jersey, as the speaker.

Mr. Slauer demonstrated many differ-
ent lighting methods and apparatuses.

One of the newest and most important
of these was the new gas filled electric
light bulbs. Westinghouse is experi-
menting with bulbs filled with helium
and other gases. The most familiar of
this new form of lighting is probably
the sodium vapor lamp which is the
nearest science has come to produc-
ing artificially the light which is prac-
tically the same as sunlight. The mer-
cury vapor light also was another of
these new lights which was shown. In
addition several light bulbs were shown
with different gases and pigments on
the inside of the glass which produced
red, green, white, blue, and yellow
light.

Another form of light and its results
as shown by Mr. Slauer, was that of
the invisible or black light which is
merely ultra-violet rays. The rays pro-
duce the phenomenon known as flores-
cence, that is the showing up of colors
that are unseen in normal light. Many
different colored designs on cloth were
shown in the normal light and then
changed mostly for the more beauti-
ful under the ultra violet rays.

A wireless form of lighting was
shown but one which is still in the
experimental stage. A generator of a
very high wattage will only light a
few bulbs and only those that are held
close to the generator.

One electric light which Mr. Slauer
showed was only the size of the com-
mon peanut with the shell on. This
was one of the new type gas filled
lights. At first it only glowed dimly
but after heating up it produced the
light of an 85-watt bulb, and at the
same time only drew a fraction of the
current that a regular light of the same
size would.

A series of very interesting slides
were shown which clearly represented
the actual breaking up of different
filaments of various metals under test
conditions. It is through this method
that the present tungsten filament was
developed.

Another form of light which is simi-
lar to the light of the firefly was
created chemically but inasmuch as it
would cost twenty-five dollars to make
the light to read only the headlines of
the average newspaper, the process is
not practical. The important feature
of this light is that it is cold. Most
light is created through heat and the
efficiency of the light bulb is very low.
more honor and distinction will be
awarded to the engineer who creates
cold light than was ever accorded Edi-
son and Steinmetz.

Several of the professors attended
this meeting as well as about twenty
Freshmen from the dormitory.

Physics Dept.

During the coming Christmas vaca-
tion, while students will be seriously
intent on keeping thoughts of school-
work out of their minds, Dr. Richard
A. Beth and Dr. Robert T. Young of
the faculty of the Physics Department
plan to visit Atlantic City from De-
cember 28-30. They will attend the
meeting of the American Physical So-
ciety, where Dr. Young will present a
highly interesting paper.

The subject of this report is "Cos-
mic Ray Ionization under Various
Thicknesses of Lead Shield in Northern
Equatorial Latitudes at Different Al-
titudes." This paper is based on in-
vestigations made by Dr. Young while
at Harvard and was finished after his
arrival at Tech.

There will be no Physics Colloquium
until after the Christmas holidays.

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Tech Takes Early Lead Winning Medley Relay But Lose Next Three Successive Events

Tech Shows Well Balanced Aggregation Contrasted To Individual Stars

The varsity swimming team of W. P. I. won their first meet of the new season with the M. I. T. team by the score of 43-34 Saturday afternoon, December 19, in the Fuller pool.

The meet started soon after three o'clock with the medley relay which was won by Worcester in 3:31 1-5. Many close finishes and a fine exhibition of diving enlivened the meet. The 150-yard backstroke was won by Dodge of M. I. T. in 1:50 3-5 which was a new record for their team. W. P. I. had only Dearborn for the diving against Pope and Gardner but still won. The dives included the front and back somersaults, full gainer, the front and back jack knife with and without a quarter twist, and several others. One unlucky fellow provided quite a spectacle by landing flat on his back while attempting a dive and one-half forward somersault but he was unhurt and continued the diving.

The summary:

300-yard medley relay—Won by Worcester (Bob Evans, Paul Murphy, J. Morrison Smith); 2nd, M. I. T. (William Brewster, Pete Bernays, Cleon Dodge). Time, 3 minutes 31 1-5 seconds.

220-yard free style—Won by Harold Chestnut, M. I. T.; 2nd, Ed. Hanson, W.; 3rd, Frank Gardner, M. I. T. Time, 2 minutes 43 1-5 seconds.

40-yard free style—Won by Cleon Dodge, M. I. T.; 2nd, Jack Karna, W.; 3rd, Archie Main, M. I. T. Time, 20 1-5 seconds.

440-yard free style—Won by Harold Chestnut, M. I. T.; 2nd, Jack Karna, W.; 3rd, Charles Small, M. I. T. Time, 6 minutes 22 3-5 seconds.

150-yard backstroke—Won by Cleon Dodge, M. I. T.; 2nd, Ed. Hanson, W.; 3rd, Dave Officer, W. Time, 1 minute 50 3-5 seconds.

200-yard breaststroke—Won by Bob Evans, W.; 2nd, Paul Murphy, W.; 3rd, Pete Bernays, M. I. T. Time, 2 minutes 54 3-5 seconds.

100-yard free style—Won by Archie Main, M. I. T.; 2nd, Fred Wiley, W.; 3rd, Winthrop Steele, M. I. T. Time, 1 minute 4 seconds flat.

Low-board diving—Won by Hank Dearborn, W.; 2nd, 224 points; 3rd, Harold Pope, M. I. T., 189 points; 3rd, Frank Gardner, M. I. T., 179 points.

400-yard free style relay—Won by W. (J. Morrison Smith, Bob Evans, Ed. Hanson, Jack Karna); 2nd, M. I. T. (Archie Main, Charles Small, Richard Martin, Harold Chestnut). Time, 4 minutes 22 2-5 seconds.

Final score, Worcester Tech, 43; Massachusetts Tech, 34.

Officials: referee and starter, Harold Aldrich; judges at finish, Fred W. Strong, Phil Baszner, John Simkonis; timers, Pete Bigler, Fred E. Strong, Professor Percy R. Carpenter; diving judges, Harold Aldrich, Phil Baszner, John Simkonis; clerk, Allen Benjamin.

Interfraternity Ball

(Continued from Page 1, Col. 5)

the organization of twelve pieces the dance is certain to be the "tops."

Patrons and patronesses for the evening will be President and Mrs. Earle, Professor and Mrs. Gay, Professor and Mrs. Swan and Mr. and Mrs. Carl Johnson.

The committee in charge is: Dana W. Woodward, chairman, C. John Lindgren, Jr., Roland O. Farrar, James M. Smith, Robert W. Powers, Douglas K. Merrill, Robert A. Langer, Richard Prokop.

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205 Main St. Worcester, Mass.

Letters Awarded At Sports Banquet

Prexy and Captain Jones Are Guest Speakers

The annual fall sports banquet was held last night, Monday the 21st, in Sanford Riley Hall. President Earle and Captain G. W. Jones were the guest speakers of the evening. Captain Jones, now manager of the Horace Partridge Sporting Goods Company, was formerly a football, track, and baseball coach at Worcester Tech. In his speech to the athletes he emphasized the importance of physical training in the engineering field.

Professor Percy R. Carpenter presented the following men with letters:

In football: John E. Germain (Capt.), Raymond J. Forkey, Richard D. Elliott, Frank G. Gustafson, Albert C. Stone, John H. Peters, Harold R. Townsley, Richard B. Wilson, Carl Lewin, Everett W. Leach, Malcolm R. Chandler, Isadore Toubman, Harold I. Johnson, William P. Frawley, and Caleb D. Hammond.

In soccer: John S. Mudgett (Capt.), David McEwan, Ernest N. Ljungren, John G. Hollick, Thomas S. Wingardner, Walter L. Abel, Kenneth C. Fraser, Charles C. Bonin, Walter H. Holt, Richard J. Donovan, and John H. Chapman (Mgr.).

Cross country: Hector L. Cameron, Zareh Martin and James B. Patch. Also Willard T. Gove, Robert E. Dunklee, Ernest J. Lawton, Harold N. Cox, and Frans E. Strandberg received their cWe.

After the supper, motion pictures of campus life at Tech and of the last "Homecoming" were shown.



1940 Physique Drops in Height; Weight Over '39

Statistics recently compiled by the Department of Physical Education from the Freshman physical examination which have just been completed, show that the Class of 1940 is 6-10 of a pound lighter and 1-8 of an inch shorter than the Class of 1939. While the height and weight line has been showing a gradual rise during the past ten years, this year's is a slight drop over last year's entering class.

AVERAGE

Weight—147 pounds
Height—5 feet 8 7-8 inches
Lung capacity—423.6
Strength, Back—159.6
Strength, Legs—235.6
Pull Up—7
Push Up—6.4
Right Grip—57
Left Grip—52.1
Total Strength 613.6

TEN STRONGEST

1—Hayes—1009 6 Hotchkiss—861
2 Boynton—901 7 Lambert—850
3 Altier—897 8 Francis—844
4 Charboneau—894 9 Lovell—830
5 Handy—868 10 Fritch—818

MAXIMUM

Davidson—205.2 lbs.
Koerber—6 feet 4 5-8 inches
Shaw, Haselton—560
Altieri, Boynton 250
Hayes—430
Love, Hayes, Martin—15

Two Undefeated Relay Teams To Meet on Monday

Phi Gamma Delta, Theta Chi Have Same Time of 2:23.1 Seconds

Interest about the Interfraternity Relays is rising to fever pitch, Phi Gamma Delta and Theta Chi continued to romp over their opponents. With seven victories and no losses apiece these two fine teams are scheduled to run against each other on Monday night which race will determine the relay championship. A résumé of the week gives the following results:

On Monday, December 14, T. U. O. was victorious over S. A. E. in 2:26.0. X. took L. X. A. handily in 2:23.3. P. S. K. came through and defeated S. O. P. 2:27.4. P. G. D. not scheduled to run. A. T. O. won from T. K. P. in 2:30.1.

On Wednesday, December 16, P. G. D. ran an exciting victory over L. X. A. in 2:24.2. P. S. K. romped over T. X. P. in 2:27.3 which also was the time A. T. O. ran when they defeated S. A. E. T. X. lowered its time again by defeating T. U. O. in 2:23.2.

On Friday, December 18, T. X. lapped A. T. O., winning in 2:23.1. S. O. P. defeated T. X. P. by about six feet in 2:29.4. P. S. K. went off the victory road when S. A. E. came through with 2:26.4, winning by 25 feet. The climax of the evening came when P. G. D. equalled T. X. best time of 2:23.1, winning over T. U. O.

A comparison of the times of the two leading contenders, Theta Chi and Phi Gamma Delta, reveals Theta Chi opening the season with 2:25.4 while Phi Gam ran 2:26.3. In the next race Phi Gam knocked off two-fifths, winning in 2:26.1 while Theta Chi proved consistent, repeating their previous time of 2:25.4. December 7 was a "blue Monday" for both teams with very slow times. December 9 Theta Chi turned in the fastest time of the season, running 2:24.1 while Phi Gam clipped their best time a little. December 11 Phi Gam lowered their time to 2:25.6

Present standing:

	Won	Lost
Phi Gamma Delta	7	0
Theta Chi	7	0
Lambda Chi Alpha	4	2
Theta Upsilon Omega	4	3
Sigma Alpha Epsilon	2	5
Alpha Tau Omega	3	4
Sigma Omega Psi	2	5
Phi Sigma Kappa	2	6
Theta Kappa Phi	0	6

Boeing Offers Scholarships In Aeronautics

Complete Flying Courses As Award For Best Thesis On Aviation

The W. E. Boeing Scholarships, sponsored by W. E. Boeing during the past seven years, will be offered again during the school year 1936-37 to University, College, and Junior College undergraduate students in the United States and Canada, who are interested in aviation as a career. Four awards in the form of flying, technical, and semi-technical courses with a tuition value of \$11,000 will be given at the Boeing School of Aeronautics, Oakland, California, a division of United Air Lines Transport Corporation.

The scholarships will be awarded on the basis of a thesis competition. To

Love—17
Lainer—82
Fritch—75
Hayes—1009

tech news sport slants

Comparable only to last year's Brown game, Saturday's game will go down in Tech athletic history as one of the greatest ever seen in Alumni Gym. Besides being an individual triumph for one of Tech's greatest stars, the game was a remarkable triumph for teamwork. Playing as a machine, the team showed form which if continued, will spell disaster for the remaining favored opponents.

With Ray Forkey and Jack Rushton taking every shot off of the Rhode Island backboard before the Rams could follow up, Tech had possession of the ball most of the time. The Staters' last breaking method of play was highly unsuccessful here and they did not realize it in time to change to a slower, more accurate form of play. Most of their plays ended in fancy

shots by Chet Jaworski who had trouble finding the hoop most of the evening. Jaworski came heralded as a super-scorer but found the opposition a little too tough for him and as a result went back to Kingston with only eleven points.

The Jayvees lost a heart breaker to North High School after they had started what looked like a winning rally. Walt Holt and Tom Wingardner, playing forward the first part of the game, teamed up to show the first real passwork the Seconds have shown all year.

The swimming team, led by Morrison Smith, Jack Karna and Bob Evans, opened the day of thrillers with their close win over M. I. T. A well-balanced team, the natators should put on some good exhibitions in their remaining meets.



DR.
JOSEPH P. WIDNEY
95, HAS WRITTEN 9 BOOKS AND
INTENDS TO WRITE AT LEAST 4 MORE!
HE WAS AN EARLY PRESIDENT OF THE
UNIVERSITY OF SO. CALIFORNIA, AND
THE FOUNDER OF THE SCHOOL OF
MEDICINE. HE STILL PREFERS AN OIL
... LAMP TO ELECTRICITY ...

STUDENTS AT THE UNIVERSITY OF WASHINGTON ARE GIVEN A 10-DAY JAIL SENTENCE IF THEY ARE CAUGHT PLAYING FOOTBALL IN THE STREETS!

be eligible students must meet the following requirements:

1. They must be male undergraduate students in good standing and in regular attendance in some University, College, or Junior College in the United States or Canada, which offers at least two years of work leading to a Bachelor's Degree in Arts or Science.
2. They must be of the white race, between the ages of 18 and 25, of average height and normal weight, have normal eyesight, and be free of any physical handicaps.
3. They must submit a technical or non-technical treatise of not over 3500 words on any aeronautical subject of their own choice.

Papers, which must be mailed on or before March 15, 1937, will be judged by a National Committee of Award composed of prominent educators under the chairmanship of Dr. Baldwin M. Woods of the Department of Mechanical Engineering, University of California.

In determining the awards, the following points are emphasized in different degrees: (a) the completeness and soundness of subject matter; (b) the success of the candidate in analyzing his subject matter and drawing conclusions from it; (c) the merit of the paper as a composition; (d) the originality of subject matter, and (e) the choice of subject.

In former competitions students from the following universities and colleges have been awarded scholarships: An-

tioch College, Bethany College, California Institute of Technology, Clarkson Memorial College, Massachusetts Institute of Technology, Mount Union College, Oregon State College, Santa Barbara State Teachers College, Stanford University, University of California, University of Maine, University of Michigan, University of Minnesota, University of Nebraska, University of Oklahoma, University of Washington, and University of Wisconsin.

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Donald L. Beebe, Miss Janice Heffernan, Worcester.
Caleb D. Hammond, Jr., Miss Helen MacAdam, Worcester.
John B. Sutcliffe, Miss Merle Higgins, Worcester.
Fielding Taylor, Jr., Miss Billee Heath.
John B. Willard, Miss Nancy Hay, Worcester.
Dana W. Woodward, Miss Elizabeth Inman, Worcester.
John G. Lawrence, Miss Elinor Payne, Worcester.
Fred J. G. Kraemer, Jr., Miss Edith Inman, Worcester.
Robert S. Lloyd, Miss Ruth E. Chaffin, Worcester.
David McEwan, Miss Elizabeth Morse, Worcester.
John T. Rushton, Miss Ann Thurston, Worcester.
Walter E. Lang, Jr.
Pierre H. Myers, Jr.
Donald P. Ramaker

SIGMA ALPHA EPSILON

Robert Powers, Miss Marion Kirby, Worcester.
Carleton H. Schupp, Miss Shirley Townsend, Worcester.
Edward Hanson, Miss Mary Donoghue, Worcester.
Ely W. Moore, Miss Elinor Burly, Springfield.
Norman M. Gamache, Marian Guertin, Worcester.
William R. Ahern, Miss Ann Toomey, Worcester.
John E. Germain, Miss Kay Swift, Saratoga, N. Y.
Richard H. Dexter, Miss Jeanne Keed, Long Island City, N. Y.
John Despotopulos, Miss Adelaide McGrail, Worcester.
Harry F. Clarke, Miss Gladys M. Kemp, Worcester.
Mr. and Mrs. James Roy Driscoll, Worcester.

ALPHA TAU OMEGA

John Lancaster, Miss Phyllis E. Metcalf, Norwich, Conn.
John W. Hughes, Miss Nancy Gunther, Shrewsbury.
Adrien Jacques, Miss Helen McGrady, Worcester.
John V. Delany, Miss Louise M. McManus, Framingham.
Edwin F. Putnam, Miss Frances Wetmore, Worcester.
Kingston Atwood, Miss Esther Dymond, Worcester.
J. Morrison Smith, Miss Elizabeth van Roosen, Newton.
Arthur A. Davis, Miss Elizabeth W. Watts, Milton.
John R. Casey, Miss Mary Curran, Worcester.
Philip Atwood, Miss Eleanor Clark, Worcester.
F. Delany, Miss Dorothy Northridge, Worcester.
F. Banan, Miss Lamar Murray, Washington, D. C.
W. P. Frawley, Miss Joyce Tonseth, Worcester.
H. L. Tygesson, Miss Sally Bull, Bridgeport, Conn.
Philip Sherman.

THETA CHI

Erving Arundale, Miss Lloyd Vaughan, Melrose.
Kimball Barber, Miss Eleanor Warner, Worcester.
Charles Cummings, Miss Nancy Fowle, Woburn.
Sidney Perkins, Miss Helen Murphy, Hudson.
Wesley Holbrook, Miss Barbara Leonard, Worcester.
Morton Fenner, Miss Ruth Morrison, Worcester.
Richard Prokop, Miss Sally Smythe, Toledo, Ohio.
James Ahern, Miss Elizabeth Forbes, Worcester.
Walter Beth, Miss Louise Swenson, Worcester.
Herbert Lundquist, Miss Virginia Shelvin, Worcester.
John Bentley.

LAMBDA CHI ALPHA

Wheldon Richards, Miss Ruth Kinnery, Worcester.
John Higginson, Miss Marian Davidson, Ansonia, Conn.
Douglas Merrill, Miss Eleanor Southworth, Ware.
Raye Linsley, Miss Ann Cutler, Worcester.
R. M. Anderson, Miss Ann Beal, Worcester.
Blair Whitcomb, Miss Virginia Bruce, Athol.
H. N. Cox, Miss Ruth Gordon, Irvington-on-Hudson, N. Y.
C. Pierce, Miss Fredrica Allen, Warehouse Point, Conn.
Robert West, Miss Janet Marden, W. Boylston.
S. Scott, Miss Margaret Snow, Worcester.
V. R. Olson, Miss Martha Benson, Worcester.
E. E. Gustafson, Miss Beatrice Anderson, Boston.
Paul J. Stone, Miss Helen Thomas, Worcester.
R. Honston, Miss Becky Mitchell, Worcester.
D. Marden

PHI SIGMA KAPPA

Michael C. Wilson, Miss Kathleen Morrissey, Medway.
C. C. Bonin, Miss Regina Deckel, Worcester.
G. W. Mills, Miss Marion Hayes, Worcester.
Robert H. Field, Miss Margaret J. Helferty, Danielson, Conn.
E. E. Turner, Miss May Hawley, Hamden, Conn.
R. B. Wilson, Miss Katherine Sinclair, Worcester.
R. V. Bergstrom, Miss Irene Deckel, Worcester.
Richard Townsley, Miss Elizabeth Farrar, Worcester.
Thomas Wingardner, Miss Velma Hanson, Worcester.
T. E. O'Neil, Miss Catherine Pryor, Worcester.
Roland O. Farrar, Miss Mae Peterson, Worcester.
Chauncey D. Chadwick, Miss Virginia Kosky.
John S. Mudgett.
R. B. Abbe.
James L. Bartlett, Jr.
Vincent O. Stromberg.

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Robert M. Taft, Miss Mary Hampshire, Worcester.
Gilbert B. Smith, Miss Louise Kenworthy, Worcester.
William S. Lyhne, Jr., Miss Ruth Bull, Bridgeport, Conn.
Everett W. Leach, Miss Eleanore Hapgood, Worcester.
Henry C. Dearborn, Miss Ruth Lindegren, Worcester.
Robert C. Dunham, Miss Mary Johnston, Dorchester.
Julian R. Buck, Miss Janice Butler, Worcester.
Raymond Forkey, Miss Janet George, Worcester.
Gleason Jewett, Miss Margaret Whitman, Marlboro.
S. P. Stafford, Miss Ruth Mayall, Oxford.
J. C. Harvey, Jr., Miss Jane Allen, Chaffins.
Harold I. Johnson, Jr., Miss Peggy Schmeltz, Framingham Center.
Bradford Ordway, Miss Dorothy Duckers, Worcester.
Stan Olson, Miss Florence Peterson, Worcester.
Donald Stevens, Miss Leona Tannahill, Worcester.
Ned Chapin, Miss Dorcas Ray, Southbridge.
Richard Munson, Miss Barbara Hanson, Worcester.
Byron Wilson, Miss Ruth Fuller, Hudson, N. H.
Benjamin Lambert, Miss Constance Keene, Marshfield.
C. John Lindegren, Miss Priscilla Adams, Worcester.
Randy Whitehead.
Jack Manchester.
Andrew M. Fine, Jr.

THETA KAPPA PHI

Lawrence F. Merow, Miss Margaret Bragg, Worcester.
William M. Stanton, Miss Phyllis Prendergast, Worcester.
John F. McGinnis, Miss Lorraine Dolan, Worcester.
Robert A. Langer, Miss Marylin Long, New York, N. Y.
Donald A. Bowler, Miss Mary-Elizabeth Chester, Hartford, Conn.
Arthur H. Malboeuf, Miss Janet Northrop, Holyoke.
Richard F. Burke, Miss Estelle Reardon, Wellesley.
Edward J. Kichner, Miss Martha Simpson, Boston.
Eugene Gravin, Miss Marion Bicket, Waterloo, N. Y.

End of Rush Week Finds 118 New Pledges

Record Number Pledged by The Eight Houses; L. X. A. Gets Largest Delegation

After two weeks of fraternity rushing the eight national fraternities on the Hill pledged a total of 118 men. Twenty five of these were Worcester men and three were upper class transfers. This year will probably be remembered as one in which there were very few hold-overs.

Phi Gamma Delta

William H. Bosworth, Jr., Florence;
Hector L. Cameron, Middletown, Conn.;
Arthur S. Dinsmore, Glen Rock, N. J.;
Stephen J. Haselton, Manchester, N. H.;
Warren C. Hotchkiss, Norwich, Conn.;
Harding B. Jenkins, Amherst;
Melvin H. Knapp, 35 Englewood avenue;
David A. Kuniholm, Gardner;
Spencer K. Lang, Westboro; Ernest J. Lawton, Jr., Palmer; Pierre H. Myers, Jr., Putnam, Conn.; Donald P. Ramaker, South Glastonbury, Conn.; and Herbert W. Shaw, Milford.

Sigma Alpha Epsilon

Anthony F. Altieri, Waterbury, Conn.; Alexander W. Bodreau, Quinebaug, Conn.; Harwood C. Burdett, Leominster; L. Mario Carangelo, New Haven, Conn.; Harvey W. Eddy, Saratoga Springs, N. Y.; Edward E. Hafey, Hartford, Conn.; Arthur R. Koerber, Northampton; Wesley E. Lazott, 43 Berkman street; Thomas P. Love, Webster; Russel M. Lupien, 47 Orange street; John Henry MacLeod, West Medway; Peter A. Muto, Williamsett; Edward P. O'Gara, Tiverton, R. I.; James F. Ryley, Fall River; Jerome D. Savaria, Chicopee; Richard B. Stevens, North Brookfield; Charles F. Sullivan, Millville; Lawrence Sullivan, Chicopee; and Robinson M. Swift, Wolfboro, N. H.

Theta Chi

James E. Ahearn, Manhattan, Kansas; John E. Bentley, Norfolk; Donald S. Chatfield, New Haven, Conn.; Kenneth W. Fowler, Winthrop; Robert C. Hannigan, Jr., Amesbury; Judson D. Lowd, Northampton; Arthur A. Morin,

Springfield; Robert G. Newton, Niagara Falls, N. Y.; Henry J. Paulson, Springfield; Robert F. Reid, Taunton; Marcus A. Rhodes, Jr., Taunton; Frank B. Stevenson, North Andover; George F. Taylor, Willimantic, Conn.; and Walter O. Nygaard, Saugus.

Alpha Tau Omega

Ralston E. Bates, Springfield; Fletcher G. Boynton, Hamden, Conn.; Frank A. Crosby, Springfield; Arthur W. Francis, New Bedford; Robert H. Gibbs, 25 Beeching street, Robert E. Higgs, Malverne, N. Y.; Kenneth H. McClure, Washington, D. C.; Richard T. Messinger, Hartford, Conn.; Donald R. Midgeley, Hopedale; Frederick B. Miller, Springfield; William A. Patterson, 58 Commodore road; Richard E. Ryan, 12 Vassar street; Philip E. Sherman, Mansfield; Stanley M. Terry, Montclair, N. J.; William G. Thatcher, Flushing, L. I.; James I. Thurston, 20 Juniper road; Herbert L. Tyvesson, Bridgeport, Conn.; Frank J. Delaney, 34 Fruit street; C. Kenneth Olson, Brockton, and Raymond B. Piper of Balboa Heights, Canal Zone.

Lambda Chi Alpha

Clayton H. Allen, Whitinsville; Donald R. Bates, Norwich, Conn.; George S. Bingham, Fitchburg; Malcolm S. Burton, 46 Beaver street; Richard A. Colman, Estill, S. C.; Robert E. Dunklee, Jr., Brattleboro, Vt.; Clyde L. Gerold, South Natick; Richard Glencross, Attleboro; Edward S. Goodrich, East Walpole; Willard T. Gove, Walpole; William Gundlach, Brooklyn, N. Y.; Rolfe G. Johnson, 6 Watson avenue; James L. Krause, Millville, N. J.; Carleton C. Ledin, Stamford, Conn.; Richard G. Mayer, Springfield; Gust W. Nurmi, Westerly, R. I.; Bruce G. Potter, Northboro; Alden T. Roys, 12 Roxbury street; Carleton F. Swasey, Jr., Stamford, Conn.; Cyril W. Tourtelotte, Norwich, Conn.; James S. Walter, Bloomfield, N. J.; and Charles J. Wilde, Ridgewood, N. J.

Phi Sigma Kappa

Howard L. Anderson; Chicago, Ill.; Philip D. Bartlett, Springfield; Ronald S. Brand, 6 Copperfield road; Richard S. Davidson, Rye, N. Y.; John H. Dowler, 15 Farnum street; Carl G. Flygare, 116 Forest street; Kenneth C. Fraser, 14 Crystal street; William C. Goodchild, Springfield; Charles C. McDonald, Yonkers, N. Y.; and Thomas S. Wingardner, Chatham, N. J.

Theta Upsilon Omega

Edward L. Chapin, Jr., Southbridge; Raymond J. Forkey, 3 Wildey avenue; Frank G. Gustafson, 76 Maywood street; Benjamin A. Lambert, Mansfield; Harold J. Manchester, Jr., New Haven, Conn.; Donald L. Stevens, 592 Park avenue; Frederick R. Waterhouse, Kennebunk, Me.; and Randall Whitehead, 34 Circuit avenue.

Theta Kappa Phi

Clement V. Charbonneau, Northboro; David J. Fitzgerald, Springfield; Peter Gaidis, Jr., Nashua, N. H.; Walter F. Gruzdis, 39 Canton street; Edward G. Harvey, 1 Geneva street; Raymond E. Lupien, North Grafton; Noel Maleady, Pittsfield; Edward A. Martell, 162 Beacon street; Edward W. Fox, 3 Wallace street; Raymond B. Shlora, 27 Arlington street; Ferdinand S. Skwark, Monson, and Daniel A. Bundza, 26 Hacker street.

Interfraternity Basketball

Jan. 4	T. X.-P. S. K.
	S. O. P.-S. A. E.
5	P. G. D.-A. T. O.
	L. X. A.-T. U. O.
6	S. A. E.-T. K. P.
	T. X. S. O. P.
7	L. X. A.-A. T. O.
	P. G. D.-P. S. K.
8	L. X. A.-P. S. K.
	P. G. D.-S. O. P.
11	T. X.-T. K. P.
	T. U. O.-A. T. O.
12	S. O. P.-L. X. A.
	T. K. P.-P. G. D.
13	S. A. E.-T. X.
	P. S. K.-T. U. O.
14	L. X. A.-T. K. P.
	P. G. D.-S. A. E.
15	P. S. K.-A. T. O.
	T. U. O.-S. O. P.
18	P. S. K.-S. O. P.
	T. K. P.-A. T. O.
19	T. X.-L. X. A.
	T. U. O.-S. A. E.
20	P. S. K.-T. K. P.
	P. G. D.-L. X. A.
21	A. T. O.-S. A. E.
	T. X.-T. U. O.
22	T. X.-A. T. O.
	S. A. E.-P. S. K.
25	T. U. O.-P. G. D.
	S. O. P.-T. K. P.
26	T. X.-P. G. D.
	L. X. A.-S. A. E.
27	A. T. O.-S. O. P.
	T. U. O.-T. K. P.

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